

Epson® OmniLink® TM-T88VII

Single-station Thermal Receipt Printer



Receipt Printer

POS

The fastest POS receipt printer¹ with advanced connectivity and online ordering capability.

Ultra fast transaction times — industry-leading print speeds up to 500 mm/sec¹ and high-speed auto cutter

Reliability you can count on — 4-year limited warranty; easy-to-clean, water-resistant enclosure; long printhead and auto cutter life²

Connect to multiple devices simultaneously — using multiple interfaces, printer can be dynamically shared by PC-POS terminals, tablets and mobile devices as well as cloud servers

Multi-interface support — built-in USB and Ethernet, optional serial, powered USB, parallel and wireless connectivity ensure maximum flexibility and futureproofing

Secure wireless connection — supports the latest Wi-Fi® security standard (WPA3)

Online ordering ready — Server Direct Print technology allows the printer to retrieve orders from a web server and print a receipt without requiring POS software integration

POS peripheral support — supports POS peripherals including barcode scanners, customer displays, and more

Easy setup and configuration — streamline the setup and replacement processes using Epson TM Utility; vertical mounting kit provides flexible configuration options

Easy to understand — status LEDs and network diagnostic sheet improve on-site network troubleshooting

Advanced paper-saving functions — top-margin and character-height reduction features help reduce paper usage by up to 49 percent³

Print

Print Method Thermal line printing

Print Speed¹ 500 mm/sec (19.7"/sec) max. for graphics and text

Print Resolution 180 dpi

Print Fonts

Fonts Font A (default): 12 x 24 (including 2-dot horizontal spacing); 10 x 24 (including 1-dot horizontal spacing)

Font B: 9 x 17 (including 2-dot horizontal spacing)

Kanji Font A: 24 x 24 (including 0-dot horizontal spacing); 20 x 24 (including 2-dot horizontal spacing)

Kanji Font B: 16 x 16 (including 0-dot horizontal spacing)

Column Capacity

Font A/B (ANK): 80mm mode 42/48/56 columns

58mm mode: 30/36/40 columns

Kanji Font A/B: 80mm mode: 21/24/32 columns

58mm mode: 15/18/22 columns

Character Set 95 Alphanumeric, 18 International, 128 x 43 Graphic, Japanese (6,879 characters of JIS X0208-1990, 845 special characters), Simplified Chinese (28,553 characters of GB18030-2000), Traditional Chinese (13,502 characters of Big5), Korean (8,224 characters of KSC5601)

Barcode UPC-A, UPC-E, JAN8/EAN8, JAN13/EAN13, Code39, Code93, Code128, ITF, CODABAR (NW-7), GS1-128, GS1 DataBar, Code 128 Auto

Two-dimensional Symbol Printing PDF417, QR Code, MaxiCode, DataMatrix, Aztec Code, Two-dimensional GS1 DataBar, Composite Symbology

Media Handling

Media Dimensions

80 mm: 79.5 ± 0.5 x 83 mm

3.13" ± 0.02" (width) x 3.27" (roll diameter)

58 mm: 57.5 ± 0.5 x 83 mm

2.26" ± 0.02" (width) x 3.27" (roll diameter)

Thickness 48 – 80 µm

Type Thermal roll paper

Paper Feed Method Friction feed

Paper Back Feed Yes

Paper Loading Drop-in

Roll Diameter (Max.) 3.27"/83 mm

Core Diameter (Min.) 0.71"/18 mm

Paper Guide Yes

Auto Cutter Yes

Near-end Sensor Yes

Connectivity

Interface (Fixed Interface Model) Built-in USB, Built-in Ethernet (10/100Base-T/TX) + Wireless Option (USB wireless dongle) OT-WL06 (802.11 a/b/g/n/ac, 2.4 GHz/5 GHz)

Interface (Connect-It™ (UIB) Model)

Built-in USB, Built-in Ethernet (10/100Base T/TX) + UIB (Serial, Parallel, Powered USB, Wireless)

Printer Discovery NFC (Near Field Communication*), Simple AP (wireless network)

Communication Protocols ESC/POS®, ePOS™ Print Service (Ethernet/Wireless), Server Direct Print (Ethernet/Wireless)

Network Security

Security:

WPA-PSK, WPA2-PSK/EAP, WPA2-EAP, EAP-TLS, WPA3-SAE,

WPA3-Enterprise, PEAP/MSCHAPv2, PEAP/TLS

Connectivity (Continued)

Port Open/Close Setting

IP Address Filtering

Printing from a Mobile Device

Wireless (802.11): iOS®, Android™ and Windows® Operating Systems

mPOS-friendly Settings (default): DHCP Enabled, DNS Enabled, IP Printing Enabled

Easy Setting Function NFC*, QR Code

Easy Setting Tool TM Utility (iOS, Android), TM-T88VII Utility (Windows)

Reliability²

Printer Reliability 20 million printing lines

MTBF 360,000 hours

MCBF 70,000,000 lines

Thermal Head Life 200 km

Auto Cutter Reliability 3.0 million cuts

General

Data Buffer

Receive: 45 bytes or 4KB, selectable

User-defined: 12KB

Macro: 2KB

NV Graphics: 384KB

NV User: 1KB

Audible Alert Optional External Buzzer (OT-BZ20)

LED Indicators Orange LEDs – Error, Paper Out; Blue LEDs – Power, LAN, Wireless

Sensors Paper End, Cover Open, Near-end Sensor

D.K.D. Function Yes

Power Consumption Operating 27.9 W (UIB Model), 28.6 W (Fixed Interface Model), Standby 1.4 W (Both Models), Power Source 24 VDC +/- 7%

Power Supply Adapter PS-190 (Included on Select SKUs)

Adapter PS-180 (Compatible, not Included)

Power Saving Yes

Temperature 5 °C to 45 °C (41°F to 113°F)

Relative Humidity 10 – 90%

Acoustic Noise Level 52 db

Standards and Approvals EMI FCC Class A, ICES-003 Class A

Safety Standard UL62368-1/CSA C22.2 No.62368-1

Dimensions (W x D x H) 5.71" x 7.68" x 5.83"

(145 x 195 x 148 mm)

Weight 3.74 lb/1.7 kg

Color ENB9 (Epson White), EBCK (Epson Black)

Cash Drawer Kick Yes

USB POS Peripheral Device Support 1 or 2 (varies by model)

Eco Features

Power-saving Mode

ENERGY STAR® qualified (select SKUs)

RoHS compliant

Recyclable product⁶

Epson America, Inc. is a SmartWay® Transport Partner⁶

What's in the Box*

Epson OmniLink TM-T88VII Printer, Thermal Roll Paper (starter roll for testing), Power Switch Cover, Connector Cover, Bottom Cover for Connector Cover, Roll Paper Guide, Screws, Setup Guide, AC Adapter w/ AC Cord, CD (drivers, utilities and documentation)

*Contents vary by individual SKU.

Software and Utilities

ePOS-Print (XML over HTTP): WPA/WPA2/WPA3-Personal/Enterprise

ePOS-Display

Server Collaboration: Server Direct Print, Status Notification

Backup/Restore: TM Utility (Windows)

OS/Language Support

Microsoft® Windows (APD, OPOS, OPOS for .NET, JavaPOS)

Microsoft Windows 8.1/iOS/Android (ePOS-Print SDK)

Mac® OS X®

Linux (CUPS, JavaPOS)

Warranty

4-year limited warranty; optional extended warranty available

Ordering Information**

Model Number **Interfaces** **Part Number**

Standard Model (Fixed USB + Ethernet Interfaces)

Epson Black
OmniLink TM-T88VII Wireless C31CJ57052
OmniLink TM-T88VII Wireless C31CJ57A9922

Epson White
OmniLink TM-T88VII Wireless C31CJ57051
OmniLink TM-T88VII Wireless C31CJ57A9932

Connect-It (UIB) Model

Epson Black
OmniLink TM-T88VII Serial C31CJ57012
OmniLink TM-T88VII Parallel C31CJ57022
OmniLink TM-T88VII Powered USB C31CJ57032
OmniLink TM-T88VII Wireless C31CJ57A9971

Epson White
OmniLink TM-T88VII Serial C31CJ57A9981
OmniLink TM-T88VII Parallel C31CJ57A9951
OmniLink TM-T88VII Powered USB C31CJ57A9941
OmniLink TM-T88VII Wireless C31CJ57A9961

** All models have built-in USB and Ethernet interfaces.

Accessories

Model Number
Wall Mounting Brackets OT-WH10
External Buzzer OT-BZ20
Customer Display DM-D30
Customer Display DM-D70
Wireless USB Adapter OT-WL06
Power Supply Cover OT-BX88VII

For additional connectivity options, please contact your Epson representative.

Epson PreferredSM Plus Extended Service Plans⁷

1-Year Return for Repair EPPSDEXTA1
1-Year SITA Coverage EPPSDSITAA1
2-Year SITA Coverage EPPSDSITAA2
3-Year SITA Coverage EPPSDSITAA3
4-Year SITA Coverage EPPSDSITAA4
5-Year SITA Coverage EPPSDSITAA5
1-Year Renewal SITA Coverage Extension EPPSDSITAA1S



WARNING: The paper roll shipped together with this product can expose you to chemicals, including Bisphenol A and Bisphenol S, which are known to the State of California to cause birth defects or other reproductive harm. **Wash hands after handling.** For more information, go to www.P65Warnings.ca.gov

1 Compared to single station thermal receipt printers available in the U.S. as of June 2021, based on manufacturers' published specifications. Speed based on using 80 mm wide media only and Epson's PS-190 or PS-180 power supply. Configurations not including the PS-190 or PS-180 will have a default print speed of 450 mm/sec. | 2 Rated printhead and cutter lives are only estimates based on normal use of the printer with the following media only, with printer operated at room temperature and normal humidity: Model KT55FA: Papierfabrik August Koehler SE; Model PD160R: Oji Imaging Media Co., Ltd.; Model TF50KS-EY: NIPPON Paper Industries Co., Ltd. Epson's statements about reliability levels are not warranties of the media or Epson's printers, and the only warranties for printers are the limited warranty statements for each printer. See www.epson.com/testedmedia for more information on Tested Media. | 3 Paper savings depend on the text and graphics printed on the receipt. | 4 NFC tag requires use of a device that includes NFC reader, and may require additional software. | 5 For convenient and reasonable recycling options, visit www.epson.com/recycle | 6 SmartWay is an innovative partnership of the U.S. Environmental Protection Agency that reduces greenhouse gases and other air pollutants and improves fuel efficiency. | 7 See individual service plan for details.

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Epson America, Inc.
3131 Katella Ave., Los Alamitos, CA 90720

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Epson Canada Limited
185 Renfrew Drive, Markham, Ontario L3R 6G3



www.epson.com
www.epson.ca

Contact:

UniLink

Sales@UniLinkinc.com | www.UniLinkinc.com | 800.666.2980